МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

НАЦІОНАЛЬНОМУ УНІВЕРСИТЕТІ "ЛЬВІВСЬКА ПОЛІТЕХНІКА"

Кафедра систем штучного інтелекту

Лабораторна робота №5

з дисципліни

«Веб-дизайн та веб-технології»

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Лабораторна робота №5

1. Write unit tests for front-end application using test framework of your choice (Mocha, Jest, Jasmine etc.).

2. Use code coverage tool of your choice (JSCoverage, Istanbul etc.) to make sure that code coverage metric is being calculated and is more than 70%.

3. Used tools should be specified in dev-dependencies in package.json file.

4. Test run & coverage measure commands should be present in the 'scripts' section of package.json file.

Виконання:

Package.json

```json
package.json > ...
1  {
2    "name": "wanderlance",
3    "version": "0.1.0",
4    "private": true,
5    "main": "./src/index.html",
6    "dependencies": {
7      "@testing-library/jest-dom": "^4.2.4",
8      "@testing-library/react": "^9.4.1",
9      "@testing-library/user-event": "^7.2.1",
10     "babel-jest": "^24.9.0",
11     "bootstrap": "^4.4.1",
12     "enzyme": "^3.11.0",
13     "enzyme-adapter-react-16": "^1.15.2",
14     "enzyme-to-json": "^3.5.0",
15     "jest": "^24.9.0",
16     "jquery": "^3.4.1",
17     "node-sass": "^4.13.1",
18     "react": "^16.12.0",
19     "react-bootstrap": "^1.0.0-beta.16",
20     "react-dom": "^16.12.0",
21     "react-fa": "^5.0.0",
22     "react-image-gallery": "^1.0.6",
23     "react-multi-carousel": "^2.5.3",
24     "react-notification-system": "^0.3.0",
25     "react-notifications": "^1.5.0-beta.0",
26     "react-router": "^5.1.2",
27     "react-router-dom": "^5.1.2",
28     "react-scripts": "3.4.0",
29     "react-test-render": "^1.1.2",
30     "react-transition-group": "^4.3.0"
31   },
```

Code

```javascript
import MyProducts from "./Pages/MyProducts";
import Register from "./Pages/LoginandRegister/Register";
import ImageUploader from "./Components/ImageUploader";
import { shallow } from "enzyme";

describe("HeaderComponent", () => {

    it("should render an icon", () => {
        const component = shallow(<Header />);
        expect(component.find(<i class="fa fa-user iconRed" aria-hidden="true"></i>)).toMatchSnapshot();
    });

    it("should render an a", () => {
        const component = shallow(<Header />);
        expect(component.find(<a class="fir-imageover" rel="noopener" target="_blank" href="/userProfile"/>)).toMatchSnapshot();
    });

    it("should render an icon", () => {
        const component = shallow(<UserCard />);
        expect(component.find(<i class="material-icons">&#10032;</i>)).toMatchSnapshot();
    });

    it("should render a p block", () => {
        const component = shallow(<UserCard />);
        expect(component.find(<p class="userCardReviews">no reviews for this product yet</p>)).toMatchSnapshot();
    });

    it('fetched default value ', () => {
        const component = shallow(<MyProducts />);
        expect(component.state().fetched).toEqual(false)
    })

    it('Url for image default value ', () => {
        const component = shallow(<ImageUploader />);
        expect(component.state().image).toEqual(null)
    })

    it('user default value ', () => {
        const component = shallow(<ImageUploader />);
        expect(component.state().user).toEqual(null)
    })

    it('email default value ', () => {
        const component = shallow(<Register />);
        expect(component.state().email).toEqual(null)
    })
});
```

Result

```
PASS src/App.test.js
  HeaderComponent
    √ should render an icon (28ms)
    √ should render an a (9ms)
    √ should render an icon (9ms)
    √ should render a p block (7ms)
    √ fetched default value  (18ms)
    √ Url for image default value  (2ms)
    √ user default value  (1ms)
    √ email default value  (1ms)

  › 6 snapshots obsolete.
     •  1
     • HeaderComponent Header container initial should render a label 1
     • HeaderComponent Header container initial should render an a 1
     • HeaderComponent Header container initial should render an icon 1
     • HeaderComponent should render a p 1
     • should take a snapshot 1
Snapshot Summary
 › 6 snapshots obsolete from 1 test suite. To remove them all, press `u`.
   └ src/App.test.js
        •  1
        • HeaderComponent Header container initial should render a label 1
        • HeaderComponent Header container initial should render an a 1
        • HeaderComponent Header container initial should render an icon 1
        • HeaderComponent should render a p 1
        • should take a snapshot 1

Test Suites: 1 passed, 1 total
Tests:       8 passed, 8 total
Snapshots:   6 obsolete, 4 passed, 4 total
Time:        4.879s, estimated 5s
Ran all test suites related to changed files.
```